**Homework #5**

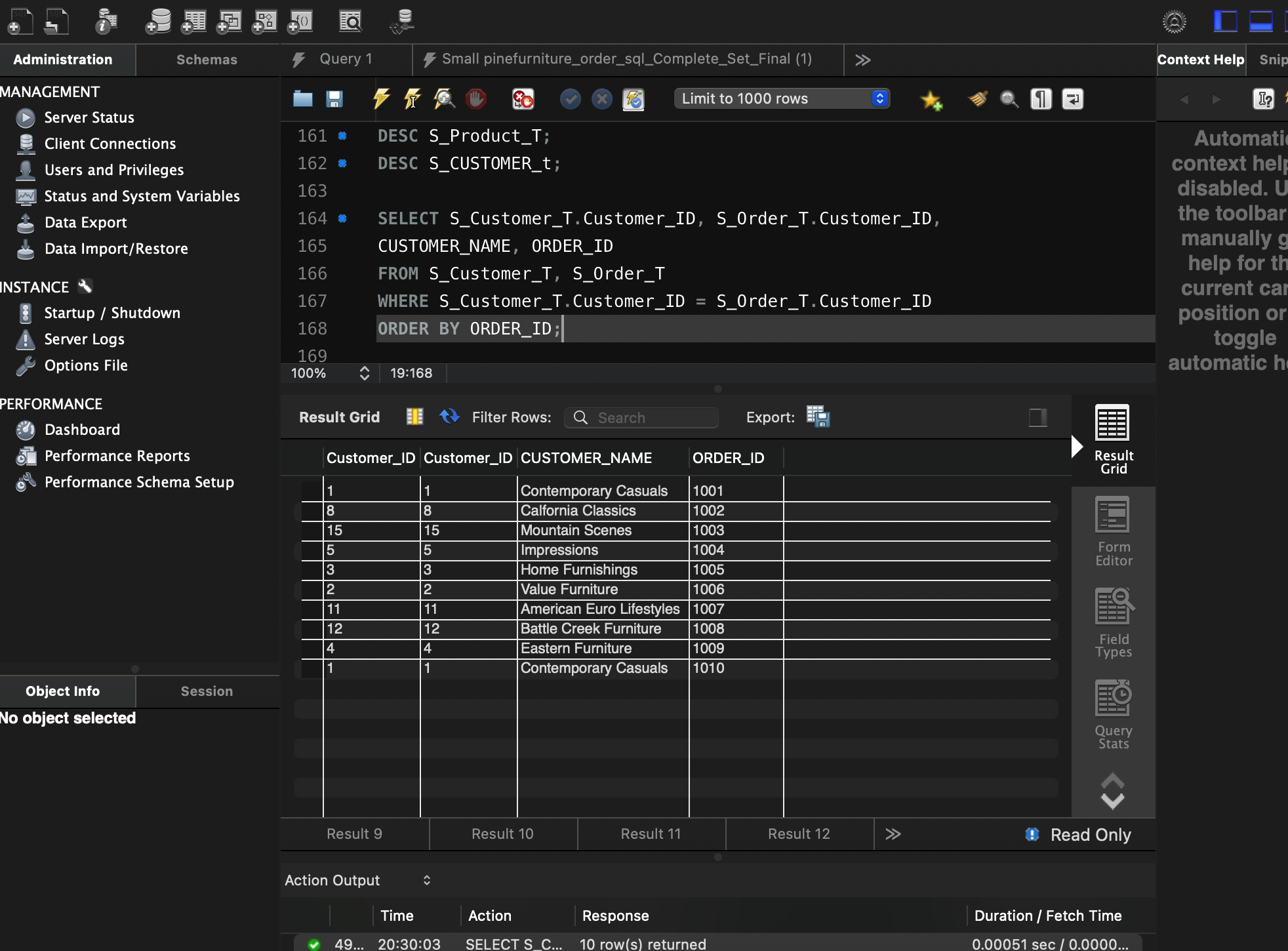
**SQL Exercises: Based on the SQL script file for Pine Valley Furniture Company, write the SQL statements for the following queries.**

1. **What are the names of all the customers who have placed orders?**

SELECT CUSTOMER\_ID, CUSTOMER\_NAME, ORDER\_ID

FROM S\_CUSTOMER\_T NATURAL JOIN S\_ORDER\_T

ORDER BY ORDER\_ID;



1. **What are the product descriptions ordered by the customer ID, 1?**

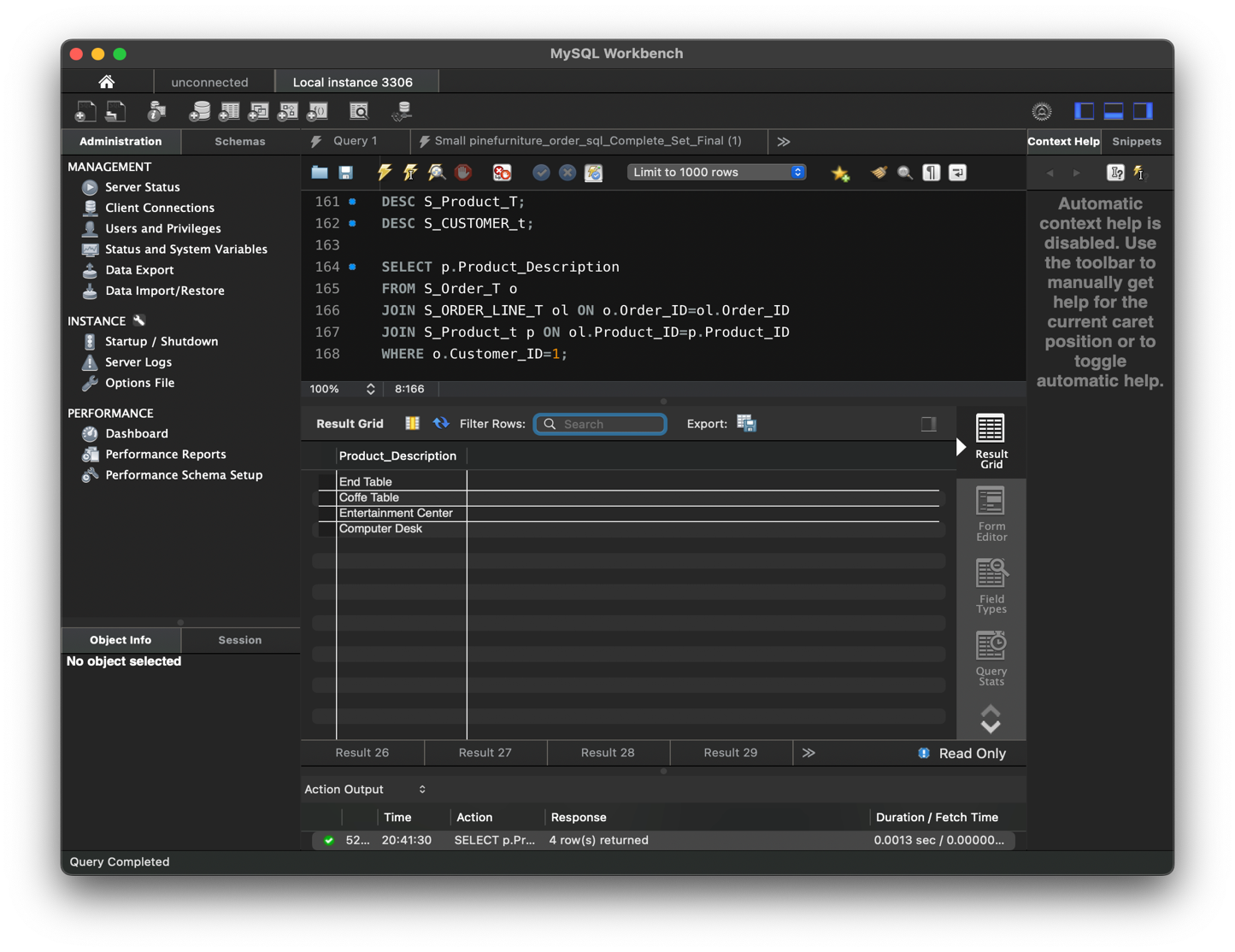
SELECT p.Product\_Description

FROM S\_Order\_T o

JOIN S\_ORDER\_LINE\_T ol ON o.Order\_ID=ol.Order\_ID

JOIN S\_Product\_t ON ol.Product\_ID=p.Product\_ID

WHERE o.Customer\_ID=1;



1. **What are the product descriptions ordered by the customer, ‘Impressions’?**

SELECT p.Product\_Description

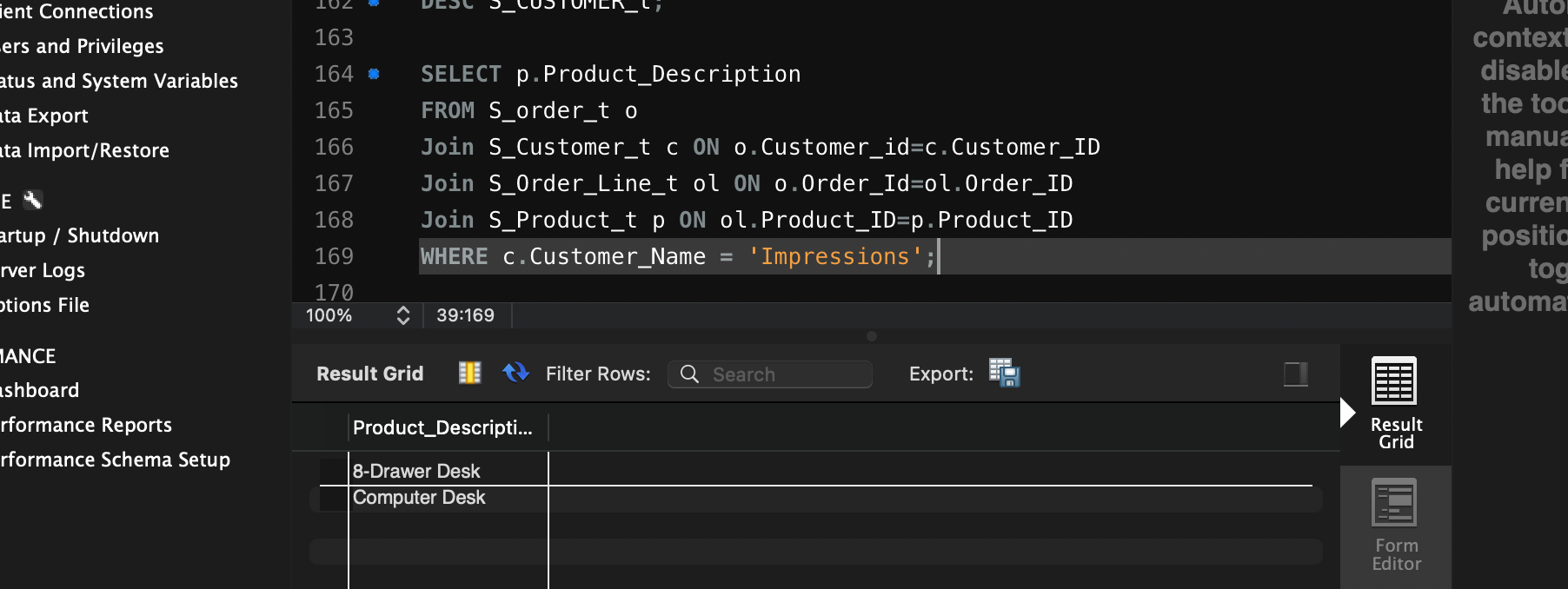
FROM S\_Order\_T o

JOIN S\_Customer\_t c ON o.Customer\_id=c.Customer\_ID

JOIN S\_Order\_Line\_t ol ON o.Order\_Id=ol.Order\_ID

JOIN S\_Product\_t p ON ol.Product\_ID=p.Product\_ID

WHERE c.Customer\_Name=’Impressions’;



1. **List all customers’ names that have placed an order that contains a product whose standard price is over $500.**

SELECT DISTINCT c.Customer\_Name

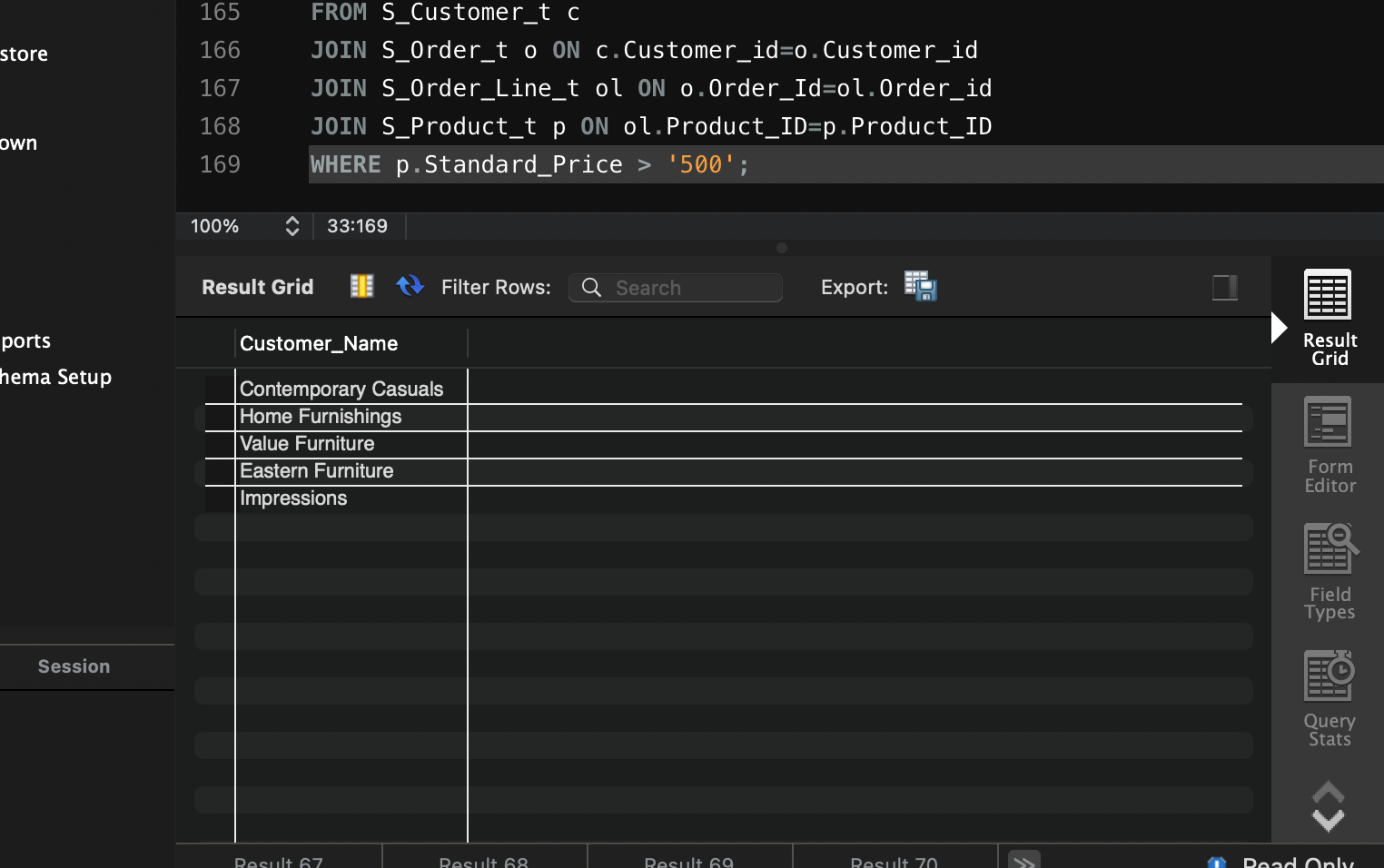
FROM S\_Customer\_t c

JOIN S\_Order\_t o ON c.Customer\_id=o.Customer\_id

JOIN S\_Order\_Line\_t ol ON o.Order\_Id=ol.Order\_id

JOIN S\_Product\_t p ON ol.Product\_ID=p.Product\_ID

WHERE p.Standard\_Price > ‘500’;

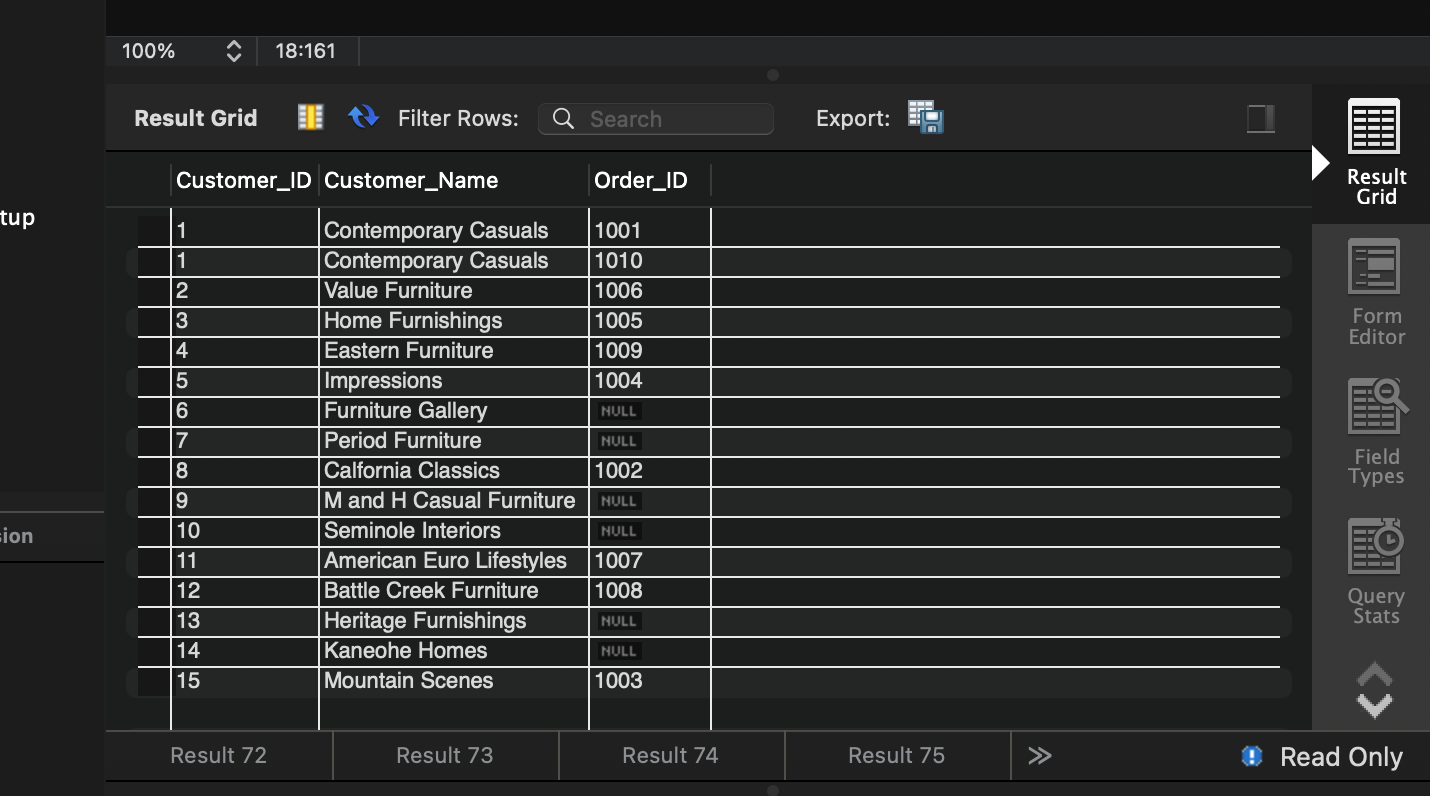


1. **List all customers. Print the order ID(s) along the customer information if they have submitted the order(s).**

SELECT c.Customer\_ID, c.Customer\_Name, o.Order\_ID

FROM S\_Customer\_T c

LEFT JOIN S\_Order\_T o ON c.Customer\_ID=o.Customer\_ID;

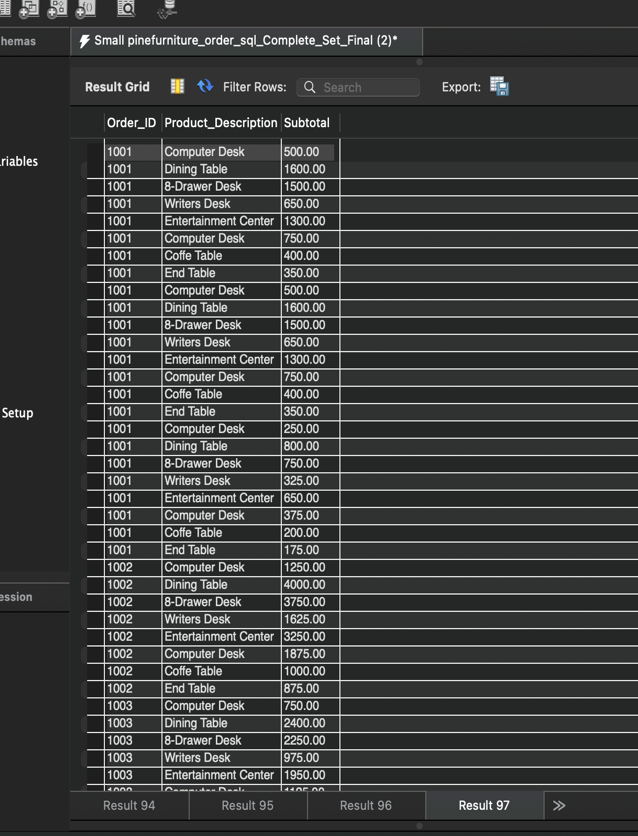


1. **Display the subtotal amount of each order line in each order.**

SELECT ol.Order\_ID, p.Product\_Description, p.Standard\_Price\*ol.Ordered\_Quantity AS Subtotal

FROM S\_Order\_Line\_t ol

JOIN S\_Product\_t p ON ol.Product\_ID;

1. **Display the total amount of each other**.

SELECT o.Order\_ID, SUM(p.Standard\_Price\*ol.Ordered\_Quantity) AS Total

FROM S\_Order\_t o

JOIN S\_Order\_Line\_t ol ON o.Order\_Id=ol.Order\_Id

JOIN S\_Product\_t p ON ol.Product\_ID=p.Product\_Id

GROUP BY o.Order\_ID;

